

# **BUSINESS INFORMATION WAREHOUSE FOR COST MANAGEMENT**



**BW Release 3.0B**

Slide 1

# BW WORKSHOP AGENDA

## ● BW Workshop I Schedule (AM)

- 8:00 – 8:10 BW overview
- 8:10 – 9:00 BW Query Terms
- 9:00 – 9:30 Reports Detail
- 9:30 – 10:00 Exercises

## ● BW Workshop II Schedule (AM)

- 10:00 – 10:10 BW overview
- 10:10 – 11:00 BW Query Terms
- 11:00 – 11:30 Reports Detail
- 11:30 – 12:00 Exercises

## ● BW Workshop III Schedule (PM)

- 1:00 – 1:10 BW overview
- 1:10 – 2:00 BW Query Terms
- 2:00 – 2:30 Reports Detail
- 2:30 – 3:00 Exercises



# WORKSHOP OBJECTIVES

- **Raise user awareness about SAP BW**
- **Understand the Components of BW**
- **Understand the How-To-Use the BW Tools**
- **Provide an overview of SAP BW Web-based reporting**
- **Create understanding of the data contained in the reports**
- **Create the ability to select & execute a standard report**



# BW OVERVIEW



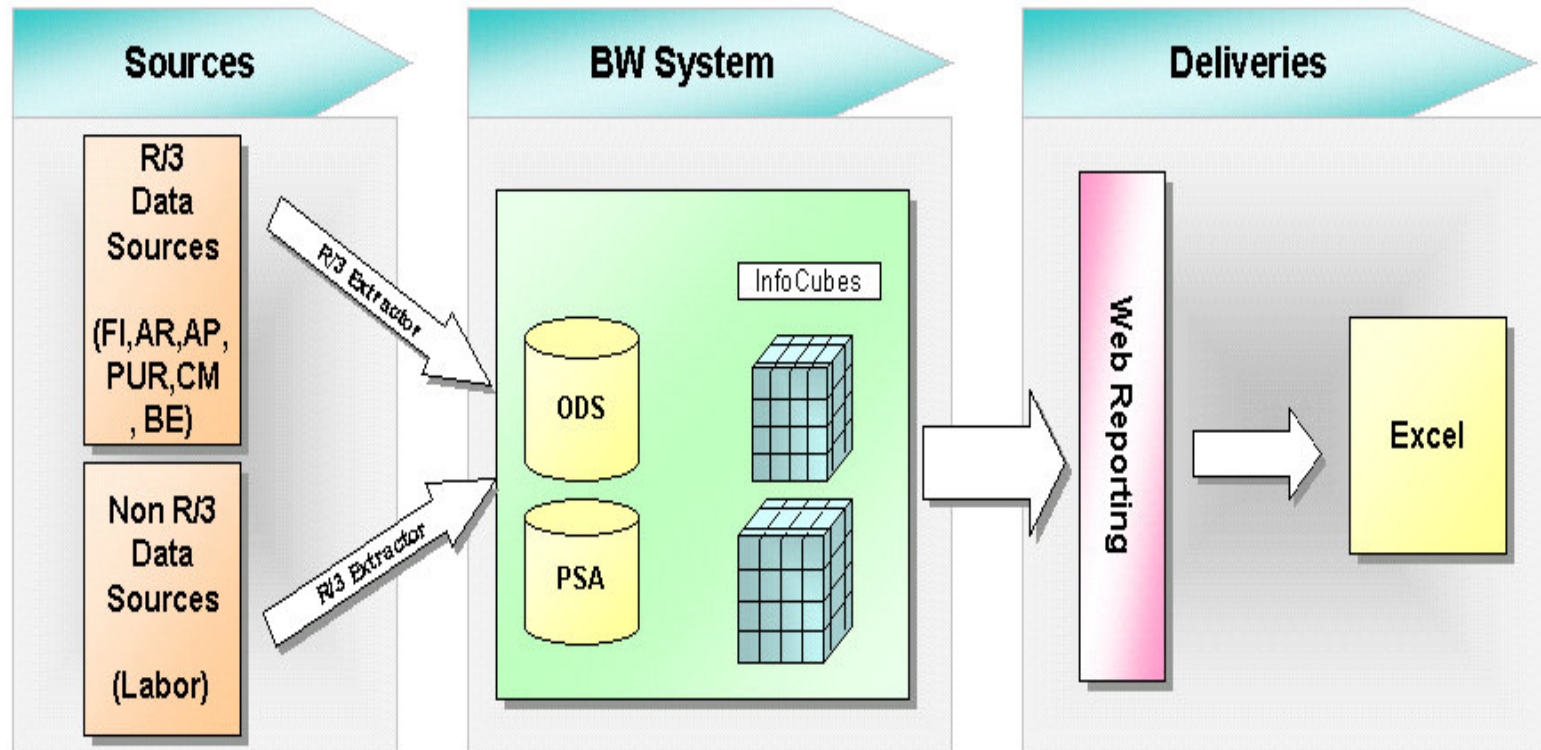
# BW OVERVIEW

## ● Why BW Reporting

- BW provides canned reports that have been customized for NASA
- BW provides NASA specific queries to run Ad hoc business reports
- Provides business intelligence reporting and analysis from R/3
- BW has Web-based reporting capabilities
  - 1 Accounts Payable (AP)
  - 5 Accounts Receivable (AR)
  - 8 Budget Execution (BE)
  - 9 Cost Management (CM)
  - 16 Executive Information System (EIS)
  - 18 Purchasing (PUR)
  - 4 Standard General Ledger (SGL)



# BW OVERVIEW



# BW AWARENESS

- **BW will time out after 30 minutes of inactivity**
- **BW data is updated nightly Sunday-Thursday evenings around 12:00am CST**



# BW QUERY TERMS





# QUERY TERMS

## ● Query Terms

- Variables (Business Area, Fiscal year, Purchase org, PO, PR)
- Key Figures (Net sales, Number of employees)
- Characteristics (Material, Customer, Plant)
- Calculated key figures (Total Sales for current year)
- Navigation Tools
- Navigation toolbar



# CHARACTERISTICS AND KEY FIGURES

## ● Key figures

- Key figures are what you report on, total sales, total spend
- Key figures are the measure of certain fact of the business.
- Calculations are performed on KF (Net sales, Invoice value)
- E.g.
  - Net sales
  - Number of employees
  - Invoice value, etc.

## ● Characteristics

- Characteristics are used to aggregate and analyze key figures
- Can not perform calculation on characteristics
- E.g.
  - Material
  - Customer
  - Plant
  - Company code, etc.



# CALCULATED KEY FIGURES

- **Calculated key figures (CKF) are key figures that are derived from other key figures usually via a calculation**





➤ E.g.

- Percent increase in sales is can be calculated using sales for current year and previous year sales
- Revenue is calculated key figure from sales - expenses



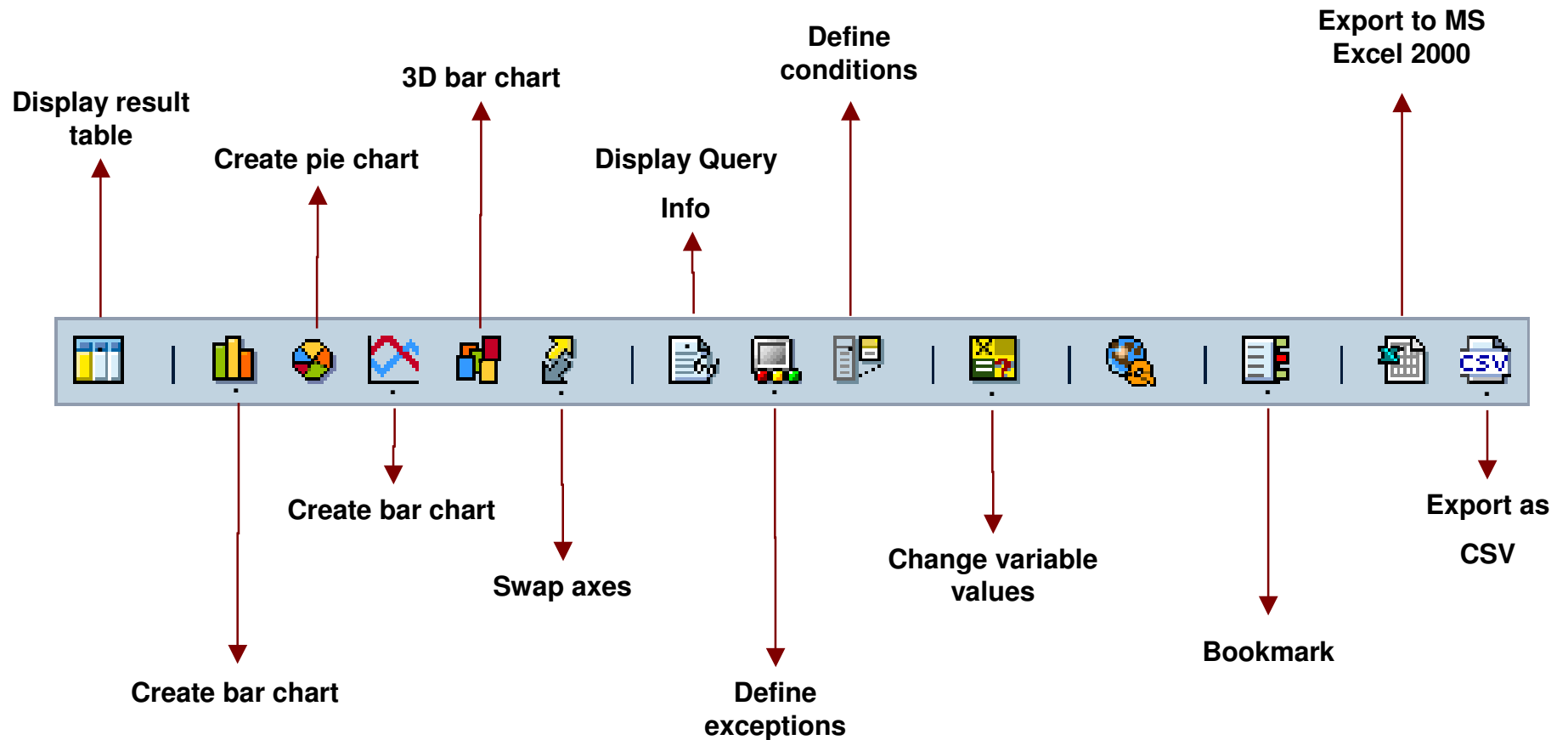
# QUERY NAVIGATION

## ● Navigation Tools

- Drill down 
- Drill across 
- Removing drill downs/across
- Define filter value 
- Change query display properties
- Change key figures display properties
- Change characteristics display properties
- Removing filter values 



# QUERY NAVIGATION TOOLBAR



# QUERY NAVIGATION

## Navigation Demo

- Please refer to Web Reporting End User Guide



# COST MANAGEMENT QUERY TERMS

## ● Cost Management Navigation Block (Variables)

	<u>Examples</u>
➤ Business Area/Center	Dryden Flight Research Center - 24
➤ Fiscal year	Current Year Funds
➤ Fiscal year/Period	Two digit month (02) / 4 Digit Year (2003)
➤ Purchase Order	(45000000001)
➤ Fund	Treasury Appropriation
➤ Funds Center	Budget Allocation
➤ WBS Element	5/7/9 Digit Based on Reporting Level
➤ Commitment Item	Object Class (2510 & etc)
➤ Plant	Center Acronym (DFRC)
➤ Cost Centers	Performing organization



# CM QUERY TERMS

## ● CM Key Figures/Characteristics

- |                                    |  |
|------------------------------------|--|
| ➤ Budget *                         | 506 Authority Received   |
| ➤ Commitment *                     | Revenues and expenditures in FM                                    |
| ➤ Obligation *                     | Signed, binding agreements or contract with suppliers to buy goods |
| ➤ Costs *                          | Resources to work for which funds can be obligated                 |
| ➤ Disbursement *                   | Amount paid on an invoice or bill                                  |
| ➤ Available Budget *               | A budget amt that still can be used                                |
| ➤ Funding Limit *                  | Limitation of costs  |
| ➤ Uncosted Fund Limit/Obligation * | Un-costed Obs  |

### Note:

- 533 Actual and Planned Contractor Reporting (adjustment is made based on difference, and is system calculated and can be manually adjusted ???)





# CM QUERY TERMS

## ● CM Key Figures/Characteristics

- |                      |  |
|----------------------|--|
| ➤ Fund               | Treasury Appropriation   |
| ➤ Fund Center        | (NASA/21APS)   |
| ➤ WBS Elements       | 5/7/9 Digit Based on Reporting Level                               |
| ➤ BW: Doc Number     | PR Number  |
| ➤ WBS Element (ext.) | 5/7/9 Digit Based on Reporting Level                               |
| ➤ G/L Account        | General ledger (Object class detail)                               |
| ➤ Plant              | NASA Centers   |
| ➤ Reporting Category | Grouping   |
| ➤ Internal Order     | Function Code (FC000000)   |
| ➤ Type of Labor      | A method in which people are categorized to perform a task or duty |
| ➤ Vendor             | Business partner to whom amounts are payable                       |
| ➤ Commitment Item    | Identifies NASA's Office of Mgt Branch object classes              |

– (\* Key Figures)



# COST MANAGEMENT REPORTS



# COST MANAGEMENT REPORTS PURPOSE

## ● Cost Management Reports Purpose

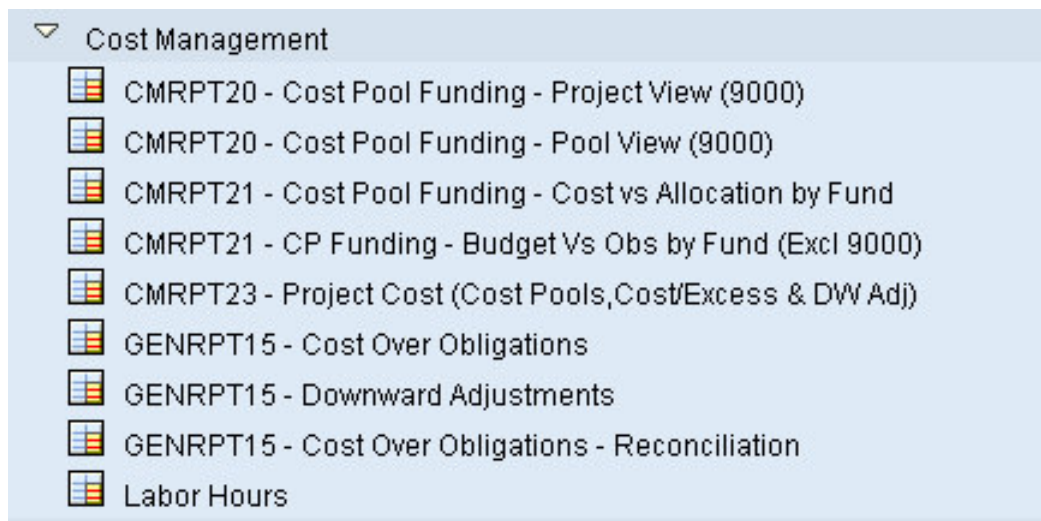
- Reports that reflect Cost Pool Funding
  - Project/Pool View (9000)
  - Budget vs. Obligations
  
- Reports that provide general information about
  - Cost Over Obligations
  - Downward Adjustments
  - Reconciliation
  
- Reports that provide Labor Hours



# BW APPLICATIONS by MODULE

## ● Cost Management

### ➤ 9 Reports



# BW APPLICATIONS by MODULE

## ● Cost Management Report Names

- (CMRPT20) - Detail Fiscal Year Cost Pool Funding by project that includes Commitments, Obligations, Cost, Disbursements and Available Budget
- (CMRPT20) - Detail Fiscal Year Cost Pool Funding by pool that includes Commitments, Obligations, Cost, Disbursements and Available Budget
- (CMRPT21) – Detail Cost Pool Funding that includes Budget, Commitments, Obligations & Cost – Cost vs. Allocation by Fund
- (CMRPT21) - Detail Cost Pool Funding that includes Budget, Commitments, Obligations & Cost – Budget vs. Obligations by Fund
- (CMRPT23) – Detail Project Cost that includes Budget, Commitments, Obligations, total Calculated Cost, Cost Over Obligation & Downward Adjustment
- (GENRPT15) - Provides the information that will represent the cost in excess of obligation based on cost entered in the Contractor Cost Report (CCR) extension
- (GENRPT15) – Detail Fiscal Year Downward Adjustments that includes Obligations, Funding Limit, Cost Over Obligation Total Cost
- (GENRPT15) - Provides detail information about Cost Over Obligation & Total Cost of Obligations
- (Labor Hours) - Provides the name of the employee and hours that charged to their codes by the elements of the FCS



# BW APPLICATIONS by MODULE

## ● Cost Management Report Names/SAP Eq

➤ (CMRPT20)	=	ZNASACP
➤ (CMRPT20)	=	ZNASAST5
➤ (CMRPT21)	=	ZNASACP
➤ (CMRPT21)	=	ZANASACP
➤ (CMRPT23)	=	n/a
➤ (GENRPT15)	=	Worksheet & CCR
➤ (GENRPT15)	=	Worksheet & CCR
➤ (GENRPT15)	=	Worksheet & CCR
➤ (Labor Hours)	=	n/a



# Online Documentation

## ● Accessing Web Reporting

- Launch Web Brower & enter the following URL
  - <http://olqr-cf.ifmp.nasa.gov>



# BW HELP DESK

## ● Need help with BW?

### ➤ Contact:

- Help Desk @ BISS Ext. 2477

### ➤ BW Functional Leads:

- CM/BE                      Laura Peters & Kimberly Stevenson
- AP/AR                      Jim Walker
- PUR                         Aubrie Henspeter & Rosalia Toberman
- EIS                         BW Team





# EXERCISES



# EXERCISE 1: WEB REPORTS

- **Note: Use the current web template and the data**
- **Open and execute a web template that includes the following items:**
  - Filters/restricted key figures
  - Use drill down, drill across, filter, sort, conditions & exceptions
- **Use the following items to practice:**
  - Use and practice with drop down boxes
  - Use and practice with check boxes
  - Use and practice with radio buttons
  - Make notes of text elements
  - Use and practice exceptions
  - Use and practice conditions



## EXERCISE 2: Save and Work with Excel

- **Note: use the “BW Web Reporting Navigation Introduction” hand out**
- **Use the query to sort (ascending, descending, expend, bookmark & query properties)**
- **Save a query as an Excel workbook in your local drive**
- **Use the Excel file to create graphics and charts**



# REVIEW OF COURSE OBJECTIVES

## You are now able to:

- Understand Query terms (Key figures/characteristics/Calculated & restricted KF)
- Use reporting tools (web application/browser/analyzer)
- Perform queries Navigation (Drill down/drill across/filter value/display properties)
- Use functionality within query (Exceptions/conditions)

